

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S10 | 6   | S8 and ((stable or (non adj switch\$3) or unchange\$1) same (phase or state))    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/02 14:43 |
| S11 | 80  | S6 and ((stable or (non adj switch\$3) or unchange\$1) same (phase or state))    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/02 14:47 |
| S12 | 61  | S11 and memory   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/02 14:47 |
| S13 | 0   | /42.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/08/25 16:37 |
| S14 | 415 | 257/42.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/08/25 16:38 |
| S15 | 61  | S14 and (switch\$3 or select\$3 or transistor)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/08/25 16:39 |
| S16 | 41  | S15 and (crystal\$6)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/08/25 16:49 |
| S17 | 1   | S14 and ((permanent\$2 near10 crystal\$4) or (non adj switch\$3) or unswitch\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/08/25 16:46 |
| S18 | 47  | S14 and crystal\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/08/25 17:36 |
| S19 | 5   | ("20020017701"   "20020187648"   "4845533"   "5814527"   "6111264").<br>PN.      | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/08/25 16:50 |

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|     |       |   |                              |    |     |                  |
|-----|-------|---|------------------------------|----|-----|------------------|
| S20 | 14    | ("20010034116"   "20020017675"   "20030011013"   "20030027416"   "20030045736"   "20030073262"   "20040001374"   "20050045864"   "4845533"   "5296716"   "5825046"   "6475911"   "6844564"   "6917532").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/08/25 17:07 |
| S21 | 9     | ("20020176349"   "20030081527"   "20040086802"   "20040218499"   "3983542"   "5557596"   "6256224"   "6262421"   "6784361").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/08/25 17:09 |
| S22 | 55545 | crystal\$5.clm.   | US-PGPUB                     | OR | OFF | 2007/08/25 17:36 |
| S23 | 515   | S22 and (ovonic.clm. or (phase adj change\$3).clm.)   | US-PGPUB                     | OR | OFF | 2007/08/25 17:37 |
| S24 | 645   | S22 and (ovonic.clm. or (phase adj change\$3).clm. or chalcogen\$3.clm.)  | US-PGPUB                     | OR | OFF | 2007/08/25 17:37 |
| S25 | 362   | S24 and ((non adj switch\$3).clm. or transistor.clm. or (select\$3.clm.))   | US-PGPUB                     | OR | OFF | 2007/08/25 17:41 |
| S26 | 196   | S25 and (permanent\$2 or stable or (non adj switch\$3))   | US-PGPUB                     | OR | OFF | 2007/08/25 17:40 |
| S27 | 196   | S26 and (transistor or select\$3).clm.  | US-PGPUB                     | OR | OFF | 2007/08/25 17:39 |
| S28 | 93    | S26 and ((permanent\$2 or stable or (non adj switch\$3)) same crystal\$5)   | US-PGPUB                     | OR | OFF | 2007/08/25 17:40 |
| S29 | 134   | S25 and (tellurium or sulfur or selenium)   | US-PGPUB                     | OR | OFF | 2007/08/25 17:41 |
| S30 | 75    | S29 and (switch\$3 or transistor or select)   | US-PGPUB                     | OR | OFF | 2007/08/25 17:41 |

## EAST Search History

| Ref # | Hits | Search Query                           | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S1    | 0    | 11/634130                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/02 14:23 |
| S2    | 0    | (11/634130).CCLS.                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/02 14:23 |
| S3    | 1    | 10/634130                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/02 14:25 |
| S4    | 8    | ovonic near4 crystal\$6                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/02 14:27 |
| S5    | 2114 | (phase adj change) near4 crystalline   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/02 14:39 |
| S6    | 281  | crystalline near3 chalcogenide         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/02 14:40 |
| S7    | 192  | S6 and memory                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/02 14:40 |
| S8    | 46   | S6 and ovonic                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/02 14:40 |
| S9    | 3    | S8 and (stable near4 (phase or state)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/02 14:42 |